1. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(10, 9) \text{ and } (2, -4)$$

A. $m \in [1.62, 7.62]$ $b \in [-7.32, -6.9]$

B. $m \in [1.62, 7.62]$ $b \in [-6.14, -5.46]$

C. $m \in [1.62, 7.62]$ $b \in [6.74, 7.29]$

D. $m \in [-4.62, -0.62]$ $b \in [-0.91, 0.3]$

E. $m \in [1.62, 7.62]$ $b \in [-1.54, -0.91]$

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2. Solve the equation below. Then, choose the interval that contains the solution.

$$-11(15x + 4) = -7(2x + 18)$$

A. $x \in [1.1, 1.29]$

B. $x \in [-0.99, -0.75]$

C. $x \in [-1.81, -1.09]$

D. $x \in [0.54, 0.79]$

E. There are no real solutions.

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3. Solve the equation below. Then, choose the interval that contains the solution.

$$-8(-9x - 19) = -16(2x + 11)$$

A. $x \in [-0.37, 0.13]$

B. $x \in [0.17, 0.39]$

C. $x \in [0.53, 1.1]$

D. $x \in [-3.47, -3.09]$

E. There are no real solutions.

4. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(7, -3) \text{ and } (-8, -11)$$

A. $m \in [-0.94, 0.53]$ $b \in [-17.27, -11.27]$

B. $m \in [0.52, 0.71]$ $b \in [-13, -8]$

C. $m \in [0.52, 0.71]$ $b \in [-5, 3]$

D. $m \in [0.52, 0.71]$ $b \in [2.73, 8.73]$

E. $m \in [0.52, 0.71]$ $b \in [-7.73, -3.73]$

5. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $4x + 9y = 11$ and passing through the point $(-2, -8)$.

A. $m \in [-0.68, -0.35]$ $b \in [8.15, 10.53]$

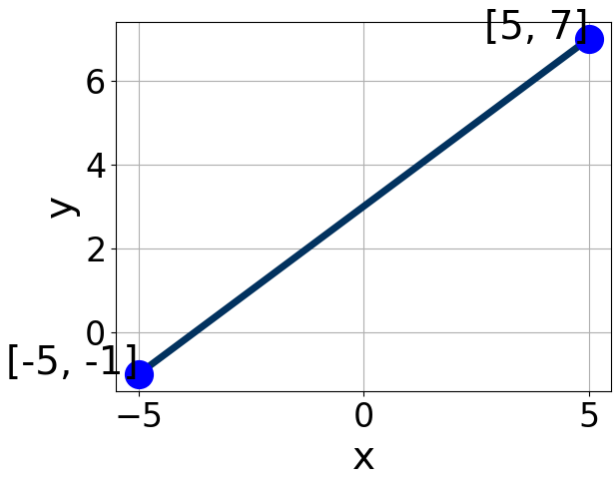
B. $m \in [-2.63, -2.21]$ $b \in [-9.38, -8.49]$

C. $m \in [-0.68, -0.35]$ $b \in [-6.29, -5.34]$

D. $m \in [-0.68, -0.35]$ $b \in [-9.38, -8.49]$

E. $m \in [0.21, 1.07]$ $b \in [-7.77, -6.24]$

6. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-3.1, 0.9]$, $B \in [-3, -0.4]$, and $C \in [-8, -1]$

B. $A \in [-7.1, -2.2]$, $B \in [4.9, 6.3]$, and $C \in [10, 18]$

C. $A \in [0.7, 7.4]$, $B \in [-7.4, -2.9]$, and $C \in [-18, -13]$

D. $A \in [-3.1, 0.9]$, $B \in [0.1, 2.7]$, and $C \in [-1, 4]$

E. $A \in [0.7, 7.4]$, $B \in [4.9, 6.3]$, and $C \in [10, 18]$

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7. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{5x+6}{2} - \frac{7x+4}{3} = \frac{-4x-4}{7}$$

A. $x \in [-7.26, -6.33]$

B. $x \in [-3.47, -2.8]$

C. $x \in [-1.27, -0.3]$

D. $x \in [-8.52, -7.79]$

E. There are no real solutions.

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8. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-7x+8}{2} - \frac{-5x-7}{8} = \frac{-6x+3}{5}$$

A. $x \in [-2.9, -0.5]$

B. $x \in [6.7, 7.5]$

C. $x \in [1.2, 1.8]$

D. $x \in [2.4, 3]$

E. There are no real solutions.

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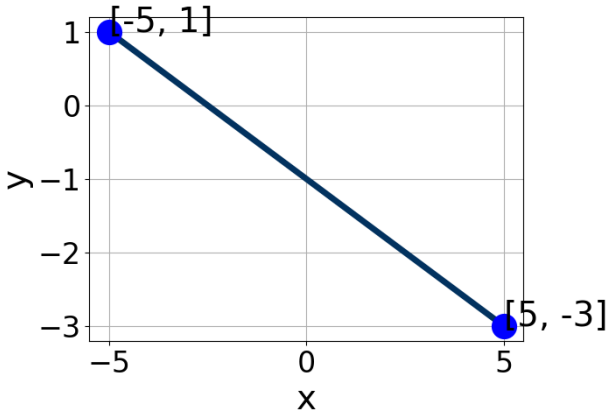
9. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-2.53, -1.94]$, $B \in [-5.7, -3.7]$, and $C \in [4.46, 6.57]$

B. $A \in [-0.18, 1.68]$, $B \in [-0.5, 2.4]$, and $C \in [-2.19, -0.77]$

C. $A \in [-0.18, 1.68]$, $B \in [-3.2, -0.3]$, and $C \in [0.79, 1.05]$

D. $A \in [1.39, 2.92]$, $B \in [-5.7, -3.7]$, and $C \in [4.46, 6.57]$

E. $A \in [1.39, 2.92]$, $B \in [4.8, 5.4]$, and $C \in [-5.32, -3.7]$

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10. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $3x + 7y = 8$ and passing through the point $(-5, 7)$.

A. $m \in [-0.99, 0.22]$ $b \in [-4.86, -1.86]$

B. $m \in [-0.99, 0.22]$ $b \in [-0.14, 5.86]$

C. $m \in [-3.3, -1.72]$ $b \in [-0.14, 5.86]$

D. $m \in [-0.99, 0.22]$ $b \in [12, 16]$

E. $m \in [-0.39, 0.98]$ $b \in [9.14, 10.14]$
